

PUZZLE & INPUT - OUTPUT

Direction(1-5): Read the following information carefully and answer the given questions

Certain people live in a four-story building in which ground floor is numbered 1, first floor is numbered 2 and so on. Three flats are there on each floor viz Flat 1, Flat 2 and Flat 3. Flat 1 is in west of Flat 2 which is to the west of Flat 3. The building is constructed in such way that Flat 1 of floor 2 is just above Flat 1 of floor 1 and likewise. There are two vacant flat but not on the same floor. Both vacant flats are odd-numbered on even-numbered floors. Maximum one person can live in each flat.

M lives in even-numbered flat and on even number floor. T lives on an odd floor but in even-numbered flat. Q and U live in an odd-numbered flat but not on the floor in which vacant flats are situated. L lives on immediate left of R. There is a gap of one floor between the floor of R and T and both R and T live on same numbered flat. O lives in the flat which is just above the flat in which L lives. U lives in a flat which is just below the vacant flat. N and U live on same floor. N and S live in same numbered flat. P neither lives on the floor which is above the floor of O or below the floor on which T lives. S does not live immediately below the flat of Q.

1. Which of the following combination is true about U?

1. Floor – 3, Flat -1
2. Floor – 1, Flat - 1
3. Floor – 3, Flat -3
4. Floor – 1, Flat – 3
5. Cannot be determined

2. Which of the statement false according to the given arrangement?

1. U lives on the floor which is below the floor of R
2. L lives on the floor which is immediately above S
3. There are two floors between on which the vacant flat and the floor on which U live.
4. There is no floor between on which the vacant flat and the floor on which N live.
5. Only one person lives above O

3. How many persons live below P?

1. One
2. Two
3. Three
4. None
5. Cannot be determined

4. Four among five are the same in a certain way and thus formed a group. Which of the following does not belong to that group?

1. Q
2. O
3. M
4. P
5. S

5. If P lives immediately above T, the number of persons living below P is same as the number of persons live above ---?

1. M
2. O
3. R
4. S
5. U

Directions(6-10): Study the given information carefully and answer the following questions below.

In a warehouse, 8 boxes have different products - Cookies, Snacks, Bread, Jam, Pickle, Shampoo, Soap and Spices. They belong to different companies - P, Q, R, S, T, U, V and W but not necessarily in that order. Each box has a number written on it from 1 to 8 but not necessarily in that order. Number 1 is at the top, number 8 is at the bottom and others accordingly.

There are 3 boxes between company P's box and the box of Pickle. Box of the company, which makes Snacks, is exactly 2 place above box of the company Q. Box, which has Soap, is neither at no. 1 nor at no. 8. Box of company Q is at even number but not at number 6. Box of Spices is above box U. There are 3 boxes between boxes of company Q and S. Box of Snacks is immediately above the box of Bread. Box of the company, which makes Shampoo, is exactly between the box of company R and box of Jam which is company S's product. The shampoo is not the product of company U. Box of Soap is immediately above to box of Cookies. Box of company V is not at number 7 while box of company U is above the box of company W. Neither Shampoo nor Spices are the product of W.

6. What is the name of product which comes from company P?

1. Bread
2. Spices
3. Snacks
4. Soap
5. Shampoo

7. Which company produces Soap?

1. P
2. V
3. R
4. Q
5. W

8. Which product's box of is immediately below the box of Cookies?

1. Shampoo
2. Pickle
3. Bread
4. Snacks
5. Soap

9. Which company's box is immediately between the box of Jam and Pickle?

1. T
2. P
3. U
4. Q
5. None of these

10. Which company's box is at the top?

1. W
2. Q
3. U
4. P
5. V

Direction(11-15): Read the information carefully and answer the following.

Eight classes from V to XII has different number of girls and boys. Strength of girls and boys in each class are 30, 40, 60, 70, 80, 100, 110, 120 but not necessarily in the same order.

Number of girls in class VII is equal to the sum of boys in class VI and VII. Number of boys in class VI is double the boys of class XI. Number of girls in class VI is less than the number of girls in class XI.

Difference between the number of boys and girls of class XII is equal to the total number of boys in VIII. Class VIII has equal number of girls and boys. Difference between the boys and girls of class X is 10. Boys in class VI are 20 more than the number of girls in class V and equal to the number of girls in class X. Number of girls in class XII is half of the girls in class X and is less than class VIII. Difference between the girls of class IX and girls of class XII is equal to the number of girls in class VIII. Ratio of boys to girls in class IX is 12 : 11.

11. What is the total strength of Class X?

- 1.110 2.130
3.150 4.70
5.220
12. What is the total number of boys present in the class XII?
1.60 2.70
3.110 4.30
5. Cannot be determined

13. What will be the ratio of Boys and girls in class VI?

1. 5 : 6 2. 7 : 6
3. 2 : 5 4. 6 : 7
5. 1 : 1

14. What is the total number of girls in class XI and IX?

1. 230 2. 250
3. 100 4. 190
5. 170

15. What is the ratio of girls in class VII to number of girls in V?

1. 4 : 1 2. 3 : 11
3. 2 : 5 4. 1 : 1
5. 5 : 2

Directions(16-20): Read the following information carefully and answer the following questions

There are 12 members (A, B, C, D, E, F, G, H, I, J, K and L) each has decided to play a different game in their college for the tournament that is going to be held in a week from Monday to Saturday. 2 games will be played in a day such that 1 in the morning and 1 in the evening.

E likes to play carom which is going to be played on Monday evening. H will play kabaddi on Thursday morning. F plays handball which is the last game of the tournament. C likes to play badminton which is scheduled on Tuesday evening. B plays football which is exactly between C and F. Tennis tournament is immediately before kabaddi. G will play between E and C. Cycling tournament will be held exactly between the tournaments in which B and F will participate. The first tournament is Chess. K loves swimming and I loves volleyball. K will play before I. J will play before I and there will be only one game between them. L will play in the morning. One person plays Rugby.

16. Cycling tournament will be held on which of the following day?

1. Tuesday 2. Saturday
3. Friday 4. Wednesday
5. None of these

17. Which sport will be played between Swimming and Kabaddi?

1. Handball 2. Badminton
3. Carrom 4. Cycling
5. Tennis

18. G played on which of the following day?

1. Monday 2. Tuesday
3. Wednesday 4. Thursday
5. Friday

19. How many persons played between G and J?

1. 4 2. 7
3. 6 4. 5
5. None of these

20. If Rugby will be played before D, then Who will play tennis?

1. K 2. D
3. A 4. B
5. Cannot be determined

Directions(21-25): Study the following information carefully and answer the questions follows:

Eight different women – A, B, C, D, E, F, G and H have bought eight different items – Watch, Kurta, Top, Shirt, Jeans, Scarf, Lipstick and Suit from eight different online sites – Amazon, Mynta, Shein, Snapdeal, Jabong, Flipkart, eBay and Nykaa (not necessarily in the same order). G has not bought a Lipstick nor bought an item from eBay. D bought a Kurta but neither from Mynta nor from Jabong. Jeans have been bought from eBay. Either A or F bought a Top but neither of them has bought from eBay. E has either bought from Flipkart or from Shein. C has neither bought Jeans nor Suit. B bought an item from Amazon but not a Scarf. Top has not been bought from Jabong. Suit has been bought from Nykaa. Watch has been bought from Snapdeal. Kurta has not bought from Shein. Lipstick has neither bought from Amazon nor from Shein. Neither A nor G has bought the item from Nykaa.

21. Who among the following bought an item from Mynta?

1. A
2. F
3. G
4. The person who bought a Lipstick
5. The person who bought a Scarf

22. Which item did F buy?

1. Watch 2. Top
3. Lipstick 4. Suit
5. Scarf

23. G bought an item from which site?

1. Mynta 2. Snapdeal
3. Jabong 4. Nykaa
5. None of the above

24. Which of the following combination(s) is/are correct?

1. C, Lipstick, Jabong 2. D, Kurta, Flipkart
3. H, Scarf, Shein 4. Both 1) & 2)
5. All 1), 2) & 3)

25. Which item did H buy?

1. Scarf 2. Watch
3. Shirt 4. Suit
5. None of the above

Direction(26-30): Read the information carefully and answer the questions.

There are eight people P, Q, R, S, T, U, V, W in a company and each of them are of different age. Everyone likes eight different colours namely Pink, Green, Black, Blue, Grey, Purple, Red, Yellow not necessarily in the same order. (Age is calculated with respect to the year 2018).

The person who likes Yellow was born after the five years of U was born. Q who likes Grey is ten years younger to V and Q is two years elder to P. P either likes Pink or Black. Only one was born before the one who likes Blue and No one were born before 1940. The person who likes Red is the eldest but not born on 1942. Age of Q is equal to sum of all digits of the year in which S was born. Age of T is equal to twice the age of V and V neither likes Black nor yellow. Age of P is 23 years who is not the youngest among them. The person who likes Purple born three years after the person who likes Grey was born. Sum of the age of Q and W is equal to the age of U. The person who likes Black is four more than twice the age of Pink.

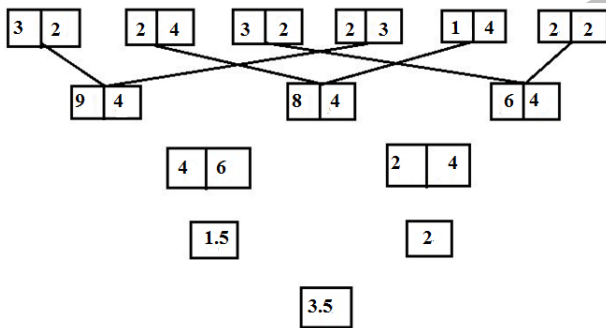
26. What is the age of R?

1. 80
3. 76
5. All of the above
27. W likes which colour?
1. Purple
3. Black
5. Either 1. or 2.
28. What is the sum of ages of U and S?
1. 98
3. 87
5. None of these
29. How many persons were born between Blue and Yellow?
1. None
3. Three
5. More than three
30. Who is the youngest among all?
1. P
3. U
5. S

(Directions 31 – 35): Study the following information carefully and answer the given questions.

A number arrangement machine arranges two digit numbers into a typical manner. Each step takes gives output taking input from the previous step. The following is an illustration of Input and rearrangement. Using the illustration answer the question given below.

Example:



Input:



31. If the value "6" is added to the final output then what will be the resultant value?
1. 12
3. 10
5. None of these
32. If in the first step the second digit of every number is added and divided by 3 then which will be the resultant value?
1. 5
3. 2
5. None of these

33. Which of the following combinations represent the first digit of the third value and the second digit of the first value in Step I of the given input?

1. 5, 1
3. 8, 6
5. 8, 8
2. 1, 5
4. 6, 8

34. Which of the following represents the sum of the second digit of the second value and the first digit of the first value in Step II of the given input?

1. 8
3. 6
5. 9
2. 7
4. 4

35. Which of the following represents the difference between the first value and the second value of Step III of the given input?

1. 1
3. 0
5. 5
2. 2
4. 4

Direction(36-40): Study the following information carefully, answer the following questions.

A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement.

Input: 15 24 35 48 63 80 99

Step I: 16 25 36 49 64 81 100

Step II: 4 5 6 7 8 9 10

Step III: 3 4 5 6 7 8 9

Step IV: 9 16 25 36 49 64 81

Step V: 72 240 600 1260 2352 4032 6480

Step V is the last step of the given input.

Answer the question for the below input:

Input: 99 120 143 168 195 224

36. Which one is the step III of the given Input?
1. 4 5 6 7 8 9 10
3. 9 16 25 36 49 64 81
5. None of these
2. 16 25 36 49 64 81 100
4. 9 10 11 12 13 14

37. What is the difference between third number from right and second number from left in the Step V?

1. 10692
3. 17482
5. None of these
2. 31740
4. 14112

38. What is the average of the numbers of step IV?

1. 407
3. 402
5. None of these
2. 135.16
4. 123.66

39. What is the sum of odd numbers in step II?

1. 37
3. 39
5. None of these
2. 38
4. 40

40. Which number is third from right in Step V?

1. 6480
3. 14520
5. None of these
2. 9900
4. 20592

(Directions 41 – 45): Study the following information to answer the given questions.

A number arrangement machine when given an input line of words and numbers rearranges them following a particular rule. The following is an illustration of input and rearrangement.

Input:	15	11	18	14	16	06	19	13
Step1:	14		15		12		15	
Step2:		14		45		36		
Step3:			9		4			
Step4:				5				

Step 4 is the last step of the rearrangement. As per the rules followed in the above steps, find out in each of the following questions.

Input: 15 04 12 15 19 10 24 07

41. What is difference between the sum of numbers of step 1 and the product of numbers of step 3?

- Multiple of 5
- Multiple of only 3
- Multiple of only 4
- Multiple of both 3 and 4
- Multiple of 9

42. Which number will appear in step four of given input?

- 6
- 4
- 3
- 5
- 8

43. What is the sum of numbers present in step 3?

- 16
- 18
- 20
- 15
- None of these

44. Which number is repeated twice in step 1?

- 11
- 14
- 17
- 15
- 18

45. Which of the following is largest number in step 2?

- 33
- 42
- 55
- 66
- 70

Direction(46-50): Study the following information carefully, answer the following questions.

A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement.

Input: DAY SON NOW TOE MAN

Step I: 30 48 52 40 28

Step II: 15 24 26 20 14

Step III: 17 22 24 18 12

Step IV: 8 4 6 9 3

Step V: 6 2 4 12 5

Step VI: F B D L E

Step VI is the last step of the given input.

Answer the question for the below input:

Input: ONE TWO THREE FOUR FIVE

46. Which letter is left of F in Step VI?

- H
- B
- G
- J
- None of these

47. What is the difference between first and last number in Step II?

- 1
- 2
- 3
- 4
- None of these

48. Which letters are there between H and G in Step VI?

- B L H
- H J L
- B F H
- H G F
- None of these

49. The Step in which only Alphabets are there?

- Step V
- Step IV
- Step VI
- Step III
- None of these

50. Which is the Step IV?

- 19 31 35 28 23
- 17 29 33 30 21
- 10 4 8 10 5
- 8 2 6 8 7
- None of these

ANSWER KEY

1.(4)	2.(5)	3.(5)	4.(1)	5.(3)	6.(3)	7.(4)	8.(2)	9.(1)	10.(5)
11.(2)	12.(3)	13.(4)	14.(1)	15.(5)	16.(3)	17.(5)	18.(2)	19.(4)	20.(5)
21.(1)	22.(4)	23.(2)	24.(4)	25.(5)	26.(2)	27.(3)	28.(4)	29.(1)	30.(5)
31.(3)	32.(2)	33.(4)	34.(1)	35.(3)	36.(4)	37.(1)	38.(2)	39.(3)	40.(4)
41.(4)	42.(2)	43.(2)	44.(1)	45.(4)	46.(2)	47.(4)	48.(3)	49.(3)	50.(3)